

SUITABLE PT100 MEASURING PROBE (4-WIRE)

Accuracy Pt100:

Sensor accuracy acc. to DIN EN 60751	
DIN cl. B: (area of validity: -50 ... +500 °C)	±0.3 °C at 0 °C
DIN cl. A: (area of validity: -30 ... +300 °C)	±0.15 °C at 0 °C
DIN cl. AA = 1/3 DIN cl. B: (area of validity: 0 ... +150 °C)	±0.1 °C at 0 °C
1/10 DIN cl. B: (area of validity: -50 ... +100 °C)	±0.03 °C at 0 °C

Upcharges special designs:

- longer probe tube**
upcharge per further starting 100 mm
- longer cable (silicone)**
upcharge per further starting meter
- other cable material**
upcharge per meter (wiring price p.r.t. page 163)
- teflon covered probe tube**
(for probes up to 200 mm)
(for probes used in acids and salt water, upper temperature range 250 °C)
- waterproof probe handle**
(only possible with PVC cable -20 ... +105 °C)
- higher sensor accuracy:**
DIN cl. AA, for Pt100, tolerances: 0.1 °C at 0 °C
- higher sensor accuracy:**
1/10 DIN cl. B, for Pt100-probes, tolerances: 0.03 °C at 0 °C

basic fee for custom made probe

GTF 401
Art. no. 600377
Immersion probe for liquids / gases
-50 ... +400 °C, DIN cl. B

GTF 401 DIN KI. AA
Art. no. 600378
Immersion probe for liquids / gases
-50 ... +400 °C, DIN cl. AA (±0.1 °C at 0 °C)

GTF 601
Art. no. 600387
Immersion probe with sheath element Pt100
-200 ... +600 °C, DIN cl. B

non-corrosive stainless steel tube (V4A) Ø 3 mm, plastic handle, anti-buckling glanding, approx. 1 m 4-wire PVC cable, 4-pin miniature DIN-type plug
Response time T₉₀ water 0.4 m/s approx. 10 s, air 2 m/s approx. 40 s

GTF 35
Art. no. 600391
Immersion probe for liquids / gases
-50 ... +400 °C, DIN cl. B

GTF 601 DIN KI. AA
Art. no. 600388
Immersion probe with sheath element Pt100
-200 ... +600 °C, DIN cl. AA (±0.1 °C at 0 °C)

V4A-flexible jacket tube, Ø 3 mm, plastic handle, anti-buckling glanding, approx. 1 m 4-wire PVC cable, 4-pin miniature DIN-type plug
Response time T₉₀ water 0.4 m/s <5 s, air 2 m/s approx. 60 s

GES 401
Art. no. 600384
Insertion probe for soft media
-50 ... +400 °C, DIN cl. B

GES 401 DIN KI. AA
Art. no. 600385
Insertion probe for soft media
-50 ... +400 °C, DIN cl. AA (±0.1 °C at 0 °C)

GTF 401 / 1.6
Art. no. 602066
Immersion probe with sheath element Pt100
-50 ... +400 °C, DIN cl. B

V4A sheath tube bendable, Ø 1.6 mm, plastic handle, antikink connection, approx. 1 m 4-pole cable, mini-DIN plug
Response time T₉₀ water 0.4 m/s <2 s, air 2 m/s approx. 25 s

GTF 401 1/10 DIN
Art. no. 600379
Immersion probe with sheath element Pt100
-50 ... +400 °C, 1/10 DIN class B (±0.03 °C at 0 °C)

stainless steel tube (V4A) Ø 3 mm, plastic handle, anti-buckling glanding, approx. 1 m 4-wire PVC cable, 4-pin miniature DIN-type plug
Response time T₉₀ water 0.4 m/s <5 s, air 2 m/s approx. 60 s

GLF 401 Mini
Art. no. 600395
Ambient air probe
-25 ... +70 °C, DIN cl. A

V4A tube Ø 1.6 mm, FL = approx. 40 mm, 4-pin mini DIN-type plug
Response time T₉₀ air 2 m/s approx. 25 s

GOF 401 Mini
Art. no. 600396
Surface probe for solid surfaces
-50 ... +200 °C, DIN cl. B

Frontal Pt100 ceramic plate 2 x 2.3 mm, V4A tube Ø 2.2 mm, approx. 1 m 4-wire PVC cable, 4-pin miniature DIN-type plug
Response time T₉₀ approx. 15 s

- Advantages of sheath element Pt100:**
- high temperature resistance
 - sheath cable is bendable
 - high shock resistance
 - high service life

GTF 401 / 1.6
Art. no. 602066
Immersion probe with sheath element Pt100
-50 ... +400 °C, DIN cl. B

GTF 401 1/10 DIN
Art. no. 600379
Immersion probe with sheath element Pt100
-50 ... +400 °C, 1/10 DIN class B (±0.03 °C at 0 °C)

GTF 601
Art. no. 600387
Immersion probe with sheath element Pt100
-200 ... +600 °C, DIN cl. B

GTF 601 DIN KI. AA
Art. no. 600388
Immersion probe with sheath element Pt100
-200 ... +600 °C, DIN cl. AA (±0.1 °C at 0 °C)

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Immersion probe with sheath element Pt100
-200 ... +600 °C, DIN cl. B

GTF 601 DIN KI. AA
Art. no. 600388
Immersion probe with sheath element Pt100
-200 ... +600 °C, DIN cl. AA (±0.1 °C at 0 °C)

GES 401
Art. no. 600384
Insertion probe for soft media
-50 ... +400 °C, DIN cl. B

GES 401 DIN KI. AA
Art. no. 600385
Insertion probe for soft media
-50 ... +400 °C, DIN cl. AA (±0.1 °C at 0 °C)

GLF 401 Mini
Art. no. 600395
Ambient air probe
-25 ... +70 °C, DIN cl. A

GOF 401 Mini
Art. no. 600396
Surface probe for solid surfaces
-50 ... +200 °C, DIN cl. B

HANDHELD INSTRUMENT
DISPLAY/CONTROLLER
LOGGER-/BUS SYSTEMS
TRANSMITTER
TEMPERATURE PROBE
ALARM/PROTECTION, LEVEL

SUITABLE PT1000-MEASURING PROBES, 2-WIRE

Accuracy Pt1000:

sensor accuracy acc. to DIN EN 60751

DIN cl. B: (area of validity: -50 ... +500 °C)

±0.3 °C at 0 °C

DIN cl. A: (area of validity: -30 ... +300 °C)

±0.15 °C at 0 °C

DIN cl. AA = 1/3 DIN cl. B: (area of validity: 0 ... +150 °C)

±0.1 °C at 0 °C

Upcharges special designs:**longer probe tube**

upcharge per further starting 100 mm

longer cable (silicone)

upcharge per further starting meter

other cable material

upcharge per meter p.r.t. page 220

teflon covered probe tube

(for probes up to 200 mm)

(for probes used in acids and salt water, upper temperature range 250 °C)

casted waterproof probe handle

(only possible with PVC cable -20 ... +105 °C)

higher sensor accuracy:

DIN cl. AA, for Pt1000, tolerances: 0.1 °C at 0 °C

higher sensor accuracy:

1/10 DIN cl. B, for Pt1000-probes, tolerances: 0.03 °C at 0 °C

basic fee for custom made probe

All types of probes also available for Pt100 2- / 3- or 4-wire connection
We manufacture all types of probes according to your special desires - low priced and fast. Please contact us.

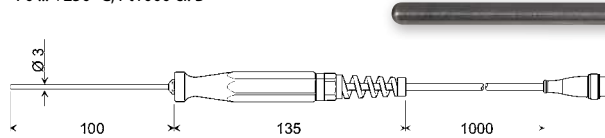
-70 °C
+250 °C

GTF 175-BNC

Art. no. 607165

Immersion for liquids / gases

-70 ... +250 °C, Pt1000 cl. B



non-corrosive V4A tube, Ø 3 mm, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: water 0.4 m/s < 2 s, air 2 m/s approx. 40 s

Advantages of sheath element Pt1000:

- high temperature resistance
- sheath cable is bendable
- high shock resistance
- high service life

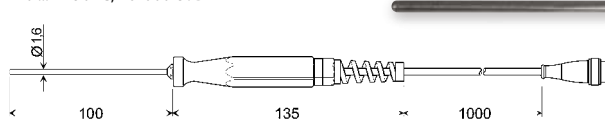
-70 °C
+250 °C

GTF 175 / 1.6-BNC

Art. no. 611323

Immersion probe with sheath element Pt1000

-70 ... +250 °C, Pt1000 cl. B



stainless steel tube (V4A), flexible, Ø 1.6 mm, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: water 0.4 m/s < 2 s, air 2 m/s approx. 25 s

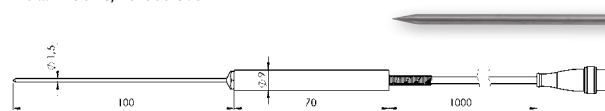
-70 °C
+250 °C

GES 20-BNC

Art. no. 607377

Insertion probe for soft media

-70 ... +250 °C, Pt1000 cl. B



V4A tube with Ø 1.5 mm slim insertion tip, small teflon handle, stainless steel kink protection, 1 m Teflon cable, BNC connector

Response time T₉₀: water 0.4 m/s < 1 s, air 2 m/s approx. 12 s

HANDHELD INSTRUMENT

DISPLAY / CONTROLLER

LOGGER / BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE

ALARM / PROTECTION, LEVEL

SUITABLE PT1000 - MEASURING PROBES, 2-WIRE

HANDHELD INSTRUMENT

DISPLAY / CONTROLLER

LOGGER / BUS SYSTEMS

TRANSMITTER

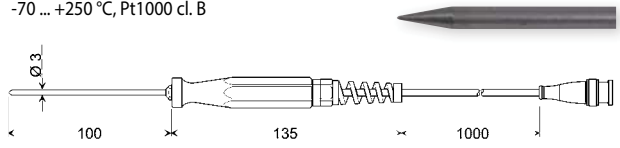
TEMPERATURE PROBE

ALARM / PROTECTION, LEVEL

-70 °C
+250 °C

GES 175-BNC

Art. no. 611324
Insertion probe for soft media
-70 ... +250 °C, Pt1000 cl. B



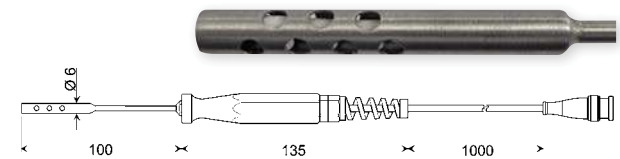
V4A tube Ø 3 mm with slim insertion tip, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: water 0.4 m/s <2 s, air 2 m/s approx. 40 s

-70 °C
+250 °C

GLF 175-BNC

Art. no. 607162
Air/gas probe for clean media
-70 ... +250 °C, Pt1000 cl. B



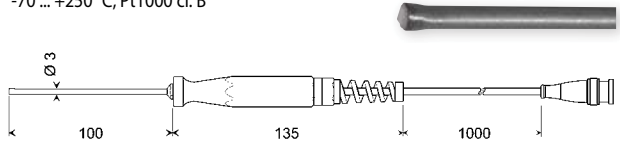
(for dirty measurands use GTF 175), punched V4A protection tube, fast miniaturized Pt1000 mounted freely in tube, resulting in fast response, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: air 2 m/s approx. 15 s

-70 °C
+250 °C

GOF 175-BNC

Art. no. 607163
Surface probe for solid surfaces
-70 ... +250 °C, Pt1000 cl. B



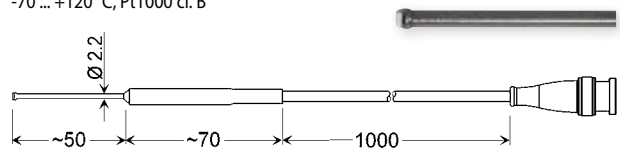
2 x 2.3 mm ceramic Pt1000 sensor mounted at the tip, V4A tube, quadratic 3 x 3 mm at the tip, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: approx. 15 s

-70 °C
+120 °C

GOF 175 Mini-BNC

Art. no. 610399
Surface probe for solid surfaces
-70 ... +120 °C, Pt1000 cl. B



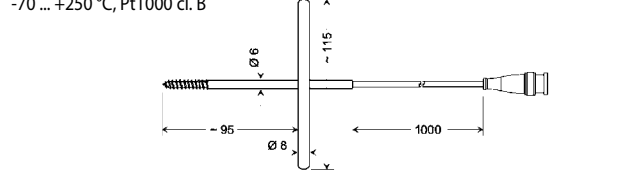
2 x 2.3 mm ceramic Pt1000 sensor mounted at the tip, V4A tube Ø 2.2 mm, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: approx. 15 s

-70 °C
+250 °C

GGF 175-BNC

Art. no. 610397
Probe for deep-frozen products
-70 ... +250 °C, Pt1000 cl. B



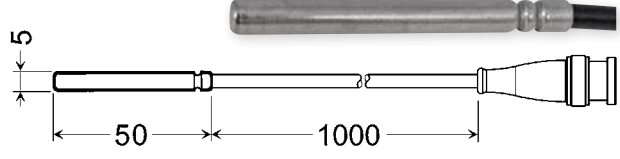
to screw into deep-frozen products, etc. no predrilling required. V4A tube, 6 mm Ø with screw prod, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: approx. 15 s

-50 °C
+200 °C

GTF 2000-BNC

Art. no. 607164
Air / tube mounting probe
-50 ... +200 °C, Pt1000 Kl. B



V4A-sensor sleeve Ø 5 mm, 1 m highly flexible silicone cable, BNC connector, each beginning meter upcharge

Response time T₉₀: water 0.4 m/s <10 s, air 2 m/s approx. 60 s

Variant:

GTF 2000-WD

Art. no. 602362
water proof type, construction like described before, but cable of PVC and tube enclosed water proof. Max. 105 °C!



HIGHLIGHTS:

- Lightweight, manageable handle with optimised ergonomics and flexible cable
- Waterproof: can be completely immersed
- Temporary temperature resistance of up to 250 °C

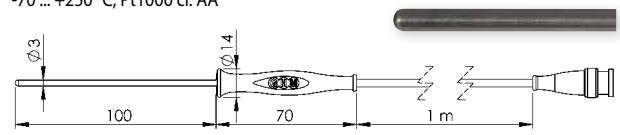
-70 °C
+250 °C

GF 1T-T3-B-BNC

Art. no. 609549
Pt1000 handheld sensor,
-70 ... +250 °C, Pt1000 cl. B

GF 1T-T3-AA-BNC

Art. no. 609550
Precision Pt1000 handheld sensor,
-70 ... +250 °C, Pt1000 cl. AA



Immersion probe Ø 3 mm made of V4A tube, black silicone handle from -50 ... +250 °C, 1 m Silicone cable from -50 ... +230 °C continuously / +250 °C for 2 h, sensor probe and silicone handle IP67, BNC connector

Response time T₉₀: water 0.4 m/s <2 s, air 2 m/s approx. 40 s

Variants:

GF 1T-T3-B-LE

Art. no. 609547
Pt1000 handheld sensor, Pt1000 cl. B, with loose ends

GF 1T-T3-AA-LE

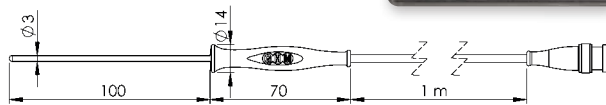
Art. no. 609548
Precision Pt1000 handheld sensor, Pt1000 cl. AA, with loose ends

SUITABLE PT1000 - MEASURING PROBES, 2-WIRE

-200 °C
+250 °C**GF 1T-T3-B-BNC-MB4**

Art. no. 611763

Pt1000 handheld probe for low temperatures, -200 ... +250 °C, Pt1000 cl. B

NEW!

immersion probe \varnothing 3 mm made of V4A tube, black silicone handle -50 ... +250 °C, 1 m silicone cable, -50 ... +230 °C permanently / +250 °C for 2 h, probe tip and silicone handle IP67, BNC plug

Response time T_{90} : water 0.4 m/s < 2 s, air 2 m/s approx. 40 s

-70 °C
+250 °C**GF 1T-E3-B-BNC**

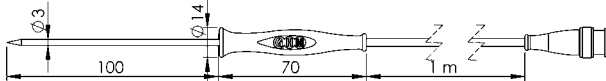
Art. no. 609639

Pt1000 insertion sensor, -70 ... +250 °C, Pt1000 cl. B

GF 1T-E3-AA-BNC

Art. no. 609640

Precision Pt1000 insertion sensor, -70 ... +250 °C, Pt1000 cl. AA



Insertion probe \varnothing 3 mm made of V4A tube, black silicone handle from -50 ... +250 °C, 1 m silicone cable from -50 ... +230 °C continuously / +250 °C for 2 h, sensor probe and silicone handle IP67, BNC connector,

Response time T_{90} : water 0.4 m/s < 2 s, air 2 m/s approx. 40 s

Variants:**GF 1T-E3-B-LE**

Art. no. 609637

Pt1000 insertion sensor, Pt1000 cl. B, with loose ends

GF 1T-E3-AA-LE

Art. no. 609638

Precision Pt1000 insertion sensor, Pt1000 Cl. AA, with loose ends

-70 °C
+250 °C**GF 1T-E1.5-B-BNC**

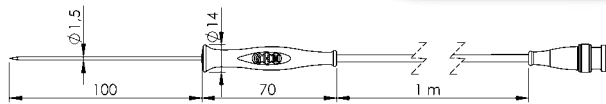
Art. no. 609645

Extra-thin Pt1000 insertion sensor, -70 ... +250 °C, Pt1000 cl. B

GF 1T-E1.5-A-BNC

Art. no. 609646

Extra-thin Pt1000 insertion sensor, -70 ... +250 °C, Pt1000 cl. A



Insertion probe \varnothing 1.5 mm made of V4A tube, black silicone handle from -50 ... +250 °C, 1 m silicone cable from -50 ... +230 °C continuously / +250 °C for 2 h, sensor probe and silicone handle IP67, BNC connector

Response time T_{90} : water 0.4 m/s < 1 s, air 2 m/s approx. 12 s

Variants:**GF 1T-E1.5-B-LE**

Art. no. 609643

Extra-thin Pt1000 insertion sensor, Pt1000 Cl. B, with loose ends

GF 1T-E1.5-A-LE

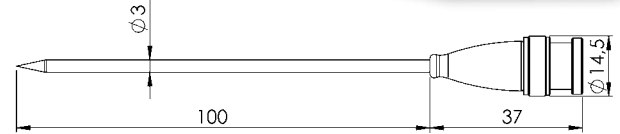
Art. no. 609644

Extra-thin Pt1000 insertion sensor, Pt1000 Cl. A, with loose ends

-70 °C
+250 °C**GF 2T-E3-B-BNC**

Art. no. 609926

Pt1000 insertion sensor, BNC connector, without cable -70 ... +250 °C, Pt1000 cl. B



Insertion probe \varnothing 3 mm made of V4A tube, IP67 in connected state, BNC connector with EPDM grommet up to +75 °C

Response time T_{90} : water 0.4 m/s < 2 s, air 2 m/s approx. 40 s

-70 °C
+250 °C**GF 2T-E1.5-A-BNC**

Art. no. 609824

Pt1000 insertion sensor, BNC connector, without cable -70 ... +250 °C, Pt1000 cl. A



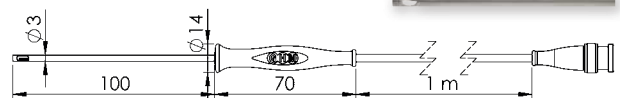
Insertion probe \varnothing 1.5 mm made of V4A tube, IP67 in connected state, BNC connector with EPDM grommet up to +75 °C

Response time T_{90} : water 0.4 m/s < 1 s, air 2 m/s approx. 12 s

-70 °C
+250 °C**GF 1T-L3-B-BNC**

Art. no. 611297

Pt1000 air sensor for clean media -70 ... +250 °C, Pt1000 cl. B

NEW!

(use GF 1T-T3 for contaminated media), perforated V4A tube \varnothing 3 mm, quick-reaction Pt1000 freely arranged, black silicone handle, up to +250 °C, 1 m silicone cable, up to +230 °C permanently / +250 °C for 2 h, BNC plug

Response time T_{90} : air 2 m/s approx. 15 s

Variant:**GF 1T-L3-B-LE**

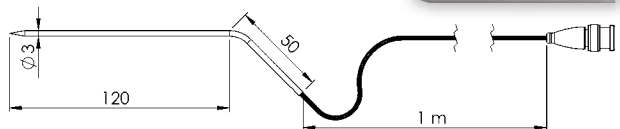
Art. no. 611298

Pt1000 air sensor, Pt1000 Class B, with loose ends

-70 °C
+400 °C**GF 3T-E3-BNC**

Art. no. 611301

Pt1000 grill sensor -70 ... +400 °C, Pt1000 cl. B

NEW!

insertion probe \varnothing 3 mm made of bent V4A tube, 1 m glass fibre insulated cable with stainless steel branding up to +350 °C continuously / +400 °C for 2 h, BNC plug

Response time T_{90} : water 0.4 m/s approx. 10 s, air 2 m/s approx. 40 s

Variant:**GF 3T-E3-B-LE**

Art. no. 611302

Pt1000 grill sensor, Pt1000 Class B, with loose ends

TYPE K - MEASURING PROBE (NICR-NI) WITH DIN-TYPE FLAT-PIN PLUG

Accuracy Thermocouples:

Sensor accuracy acc. to DIN EN 60584-1:2014-07

Class 1 for Type K: ±1.5 °C at range -40 ... +375 °C

Class 1 for Type N: ±1.5 °C at range -40 ... +375 °C

Class 1 for Type S: ±1 °C at range 0 ... 1100 °C

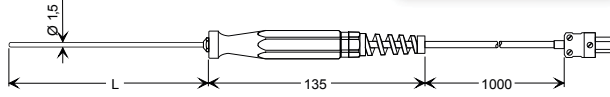
basic fee for custom made probe

GTF 400

Art. no. 600502

Immersion probe
-65 ... +550 °C

VERY FAST



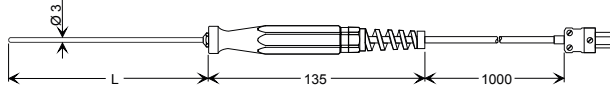
inexpensive, fast, elastic (rigid)
non-corrosive V4A tube Ø 1,5 mm, L=130 mm, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: water 0.4 m/s <1 s

GTF 900

Art. no. 600505

Immersion probe
-65 ... +1000 °C



inexpensive, elastic (rigid)
non-corrosive V4A tube Ø 3 mm, L=130 mm, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

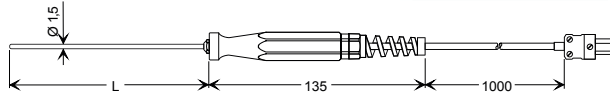
Response time T₉₀: water 0.4 m/s <2 s, air 2 m/s approx. 40 s

GTF 1200

Art. no. 600507

Immersion probe with sheathed thermocouple
-200 ... +1150 °C

BENDABLE



Inconel 600 jacket tube Ø 1.5 mm, flexible, L=150 mm, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

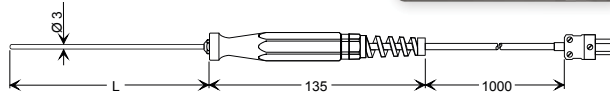
Response time T₉₀: water 0.4 m/s approx. 3 s

GTF 1200/300

Art. no. 600510

Immersion probe with sheathed thermocouple
-200 ... +1150 °C

**BENDABLE
POTENTIAL FREE**



Inconel 600 jacket tube Ø 3 mm, flexible, L = 300 mm, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

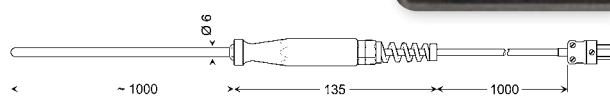
Response time T₉₀: water 0.4 m/s approx. 5 s

GTF 1000 AL

Art. no. 600512

Immersion probe with sheathed thermocouple
-200 ... +1000 °C

VERY ROBUST



for aluminium melt, non-ferrous metal, etc.
V4A tube Ø 6 x 1.4 mm, L=1000 mm rigid, additional internal mantle thermocouple, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: water 0.4 m/s approx. 30 s

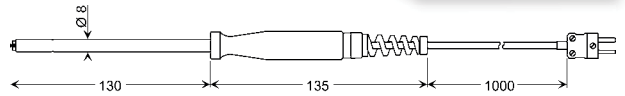
-65 °C
+900 °C

GOF 130

Art. no. 600490

Surface probe
-65 ... +900 °C

VERY FAST



for any solid surface:
2 laser welded NiCr-Ni resilient springs, V4A-tube Ø 8 mm, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

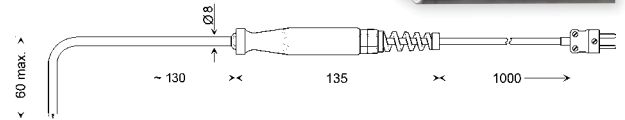
Response time T₉₀: approx. 5 s

-65 °C
+900 °C

GOF 900 HO

Art. no. 600500

Surface probe
-65 ... +900 °C



for any solid surface
2 laser welded NiCr-Ni resilient springs, bendable V4A-tube, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

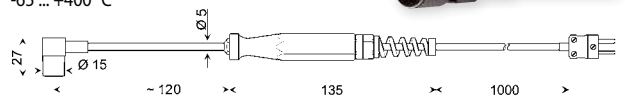
Response time T₉₀: approx. 5 s

-65 °C
+400 °C

GOF 200 HO

Art. no. 600492

Surface probe
-65 ... +400 °C



for fastest measurements in small gaps
Small elbow-type, flexible thermocouple tapes, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

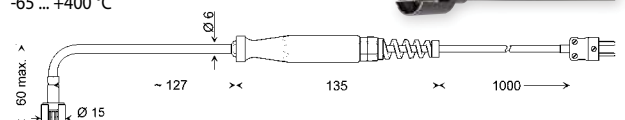
Response time T₉₀: approx. 2 s

-65 °C
+400 °C

GOF 400 HO

Art. no. 600494

Surface probe
-65 ... +400 °C



for fastest measurements
Small elbow-type, flexible thermocouple tapes, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

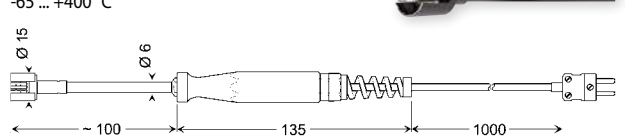
Response time T₉₀: approx. 2 s

-65 °C
+400 °C

GOF 400 VE

Art. no. 600496

Surface probe
-65 ... +400 °C



for fastest measurements, flexible thermocouple tapes, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: approx. 2 s

MH 400VE

Art. no. 607502

magnet holder, heat resistant up to 100 °C

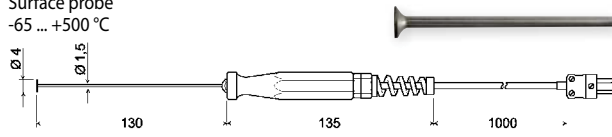


TYPE K - MEASURING PROBE (NICR-NI) WITH DIN-TYPE FLAT-PIN PLUG

-65 °C
+500 °C

GOF 500

Art. no. 600488
Surface probe
-65 ... +500 °C



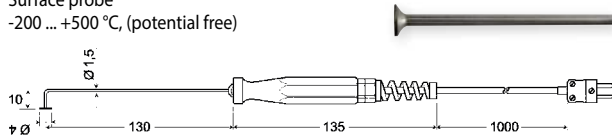
for any straight and solid surface; solid copper plate, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: approx. 10 s

-200 °C
+500 °C

GOF 500 HO

Art. no. 600498
Surface probe
-200 ... +500 °C, (potential free)



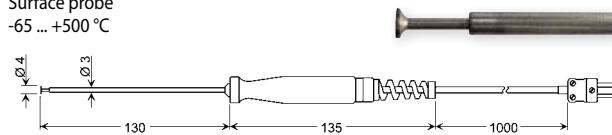
for any straight and solid surface, small elbow-type, solid copper plate, Ø 1.5 MTE (K) Inconel 600 bendable, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: approx. 20 s

-65 °C
+500 °C

GOF 130 CU

Art. no. 600486
Surface probe
-65 ... +500 °C



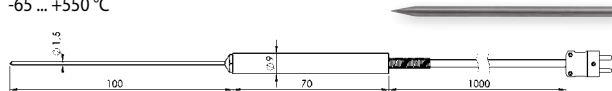
for any straight and solid surface
Spring-loaded copper plate, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: approx. 5 s

-65 °C
+550 °C

GES 20K

Art. no. 602591
Core temperature- / food probe
-65 ... +550 °C



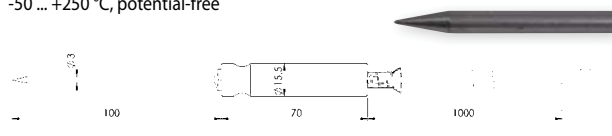
Use for canteen kitchen, bakeries, butcher's shops, etc.
V4A tube with Ø 1.5 mm slim insertion tip, small Teflon handle, stainless steel kink protection, 1 m Teflon cable, miniature flat plug

Response time T₉₀: water 0.4 m/s <1 s, air 2 m/s approx. 12 s

-50 °C
+250 °C

GES 21K

Art. no. 600074
Core temperature- / food probe
-50 ... +250 °C, potential-free



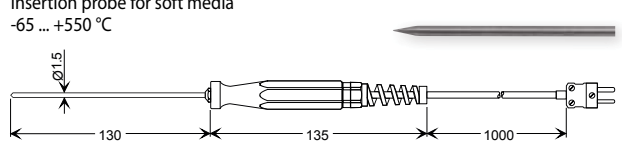
Use for canteen kitchen, bakeries, butcher's shops, etc.
V4A tube Ø 3 mm with needle-shaped insertion tip, big white teflon handle, stainless steel kink protection, 1 m Teflon cable, miniature flat plug

Response time T₉₀: water 0.4 m/s <2 s, air 2 m/s approx. 40 s

-65 °C
+550 °C

GES 130

Art. no. 600514
Insertion probe for soft media
-65 ... +550 °C



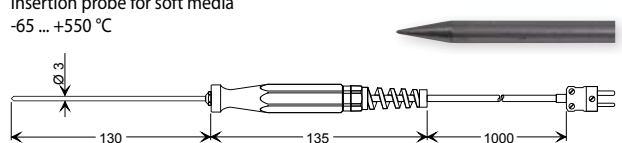
V4A tube with Ø 1.5 mm slim insertion tip, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: water 0.4 m/s approx. 1 s, air 2 m/s approx. 1.5 s

-65 °C
+550 °C

GES 500

Art. no. 600516
Insertion probe for soft media
-65 ... +550 °C



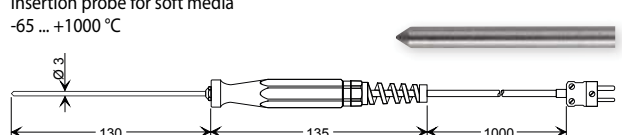
V4A tube with Ø 3 mm with needle-shaped insertion tip, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: water 0.4 m/s <2 s

-65 °C
+1000 °C

GES 900

Art. no. 600518
Insertion probe for soft media
-65 ... +1000 °C



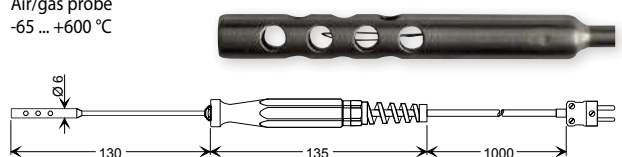
Spring-loaded V4A tube with slim Ø 3 mm insertion tip, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: water 0.4 m/s approx. 5 s

-65 °C
+600 °C

GTL 130

Art. no. 602304
Air/gas probe
-65 ... +600 °C



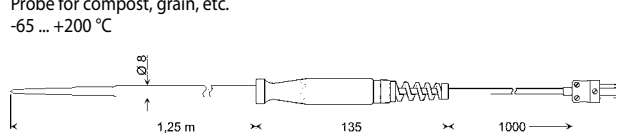
for room temperature, flue gases, etc.
perforated V4A protective tube, fused thermocouple wires arranged behind, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: air 2 m/s approx. 15 s

-65 °C
+200 °C

GKF 125

Art. no. 600520
Probe for compost, grain, etc.
-65 ... +200 °C



split-second response time, yet highly resilient
V4A tube Ø 8 mm reduced to Ø 3 mm at the front, plastic handle, anti-buckling glanding, 1 m silicone cable, miniature flat plug

Response time T₉₀: water 0.4 m/s approx. 6 s

HANDHELD INSTRUMENT

DISPLAY/CONTROLLER

LOGGER-/BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE

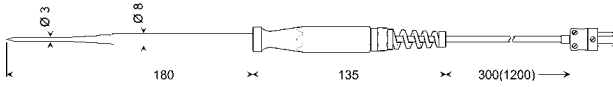
ALARM/PROTECTION, LEVEL

TYPE K - MEASURING PROBE (NICR-NI) WITH DIN-TYPE FLAT-PIN PLUG

-65 °C
+550 °C

GAF 200

Art. no. 600522
Asphalt probe
-65 ... +550 °C



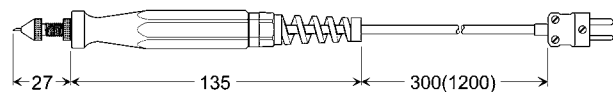
for liquid or soft media etc.
V4A tube 8 mm dia. reduced to 3 mm, plastic handle, anti-buckling glanding, spiral cable stretchable to 1.2 m, DIN-type flat-pin plug

Response time T₉₀: water 0.4 m/s approx. 6 s

-50 °C
+200 °C

GRF 200

Art. no. 604663
Tire probe
-50 ... +200 °C



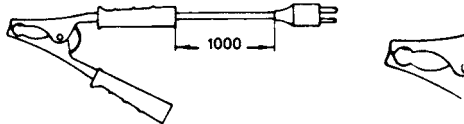
fast response insertion probe with stop screw (needle adjustable 0 ... approx. 14 mm). Suitable for measuring temperature of tires and other soft media. Plastic handle, anti-buckling glanding, spiral cable (approx. 1.2 m drawn out), miniature flat plug

Response time T₉₀: approx. 5 s

-65 °C
+150 °C

GTZ 300

Art. no. 603287
Clip-on probe
-65 ... +150 °C



for temperature measurements at tube surfaces
for tubes up to approx. 25 mm Ø, 1 m silicone cable, miniature flat plug

Response time T₉₀: approx. 3 s

-65 °C
+300 °C

GTF 300

Art. no. 600072
Wire probe for quick-response measurements
Measuring tip twisted/fused



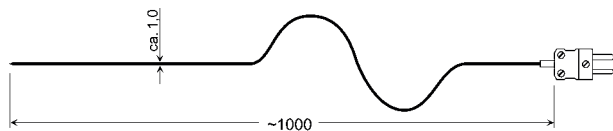
GTF 300-UV

Art. no. 600081
Wire probe for quick-response measurements
Measuring tip non-twisted/fused



GTF 300-SP

Art. no. 605973
Wire probe for quick-response measurements
Measuring tip with weld bead
-65 ... +300 °C, insulation up to +250 °C



for air, gases, diminutive surfaces
Teflon-insulated twisted Ø 0.2 mm thermocouple wires, fused measuring tip, very flexibel, miniature flat plug

Response time T₉₀: water 0.4 m/s approx. 0,3 s

-65 °C
+400 °C

GTF 300 GS

Art. no. 602554
Wire probe for quick-response measurements
twisted measuring tip



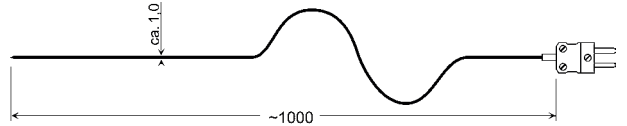
GTF 300 GS-UV

Art. no. 607893
Wire probe for quick-response measurements
Measuring tip non-twisted/fused



GTF 300 GS-SP

Art. no. 606208
Wire probe for quick-response measurements
Measuring tip with weld bead
-65 ... +400 °C



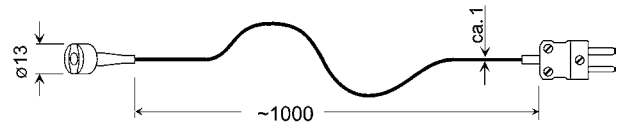
for air, gases, diminutive surfaces (not for liquids)
glass filament insulated Ø 0.2 mm thermocouple wires, miniature flat plug

Response time T₉₀: water 0.4 m/s approx. 0.3 s
Additional charge for any length per m

-65 °C
+250 °C

GMF 250

Art. no. 600071
Magnetic surface probe
-65 ... +250 °C



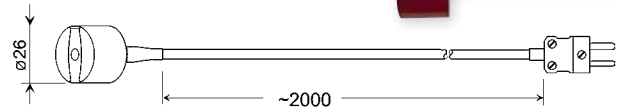
self-adhesive on magnetic materials, spring-loaded CU plate Ø 5 mm, 1 m Teflon-insulated twisted cable, miniature flat plug

Response time T₉₀: approx. 5 s

-65 °C
+200 °C

GMF 200

Art. no. 601377
Magnetic surface probe
-65 ... +200 °C



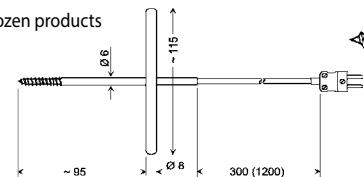
self-adhesive on magnetic materials (higher magnetic holding force), spring-loaded CU plate Ø 5 mm, resilient 2 m long silicone cable, miniature flat plug

Response time T₉₀: approx. 5 s

-65 °C
+200 °C

GGF 200

Art. no. 603418
Probe for deep-frozen products
-65 ... +200 °C



to screw into deep-frozen products, etc. no predrilling required, V4A-tube, 6 mm Ø with screw prod, spiral cable (approx. 1.2 m drawn out), DIN-type flat-pin plug

Response time T₉₀: approx. 15 s

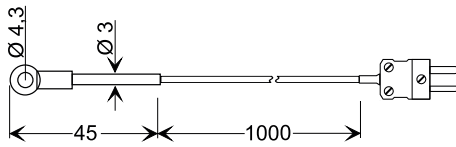
HANDHELD INSTRUMENT
DISPLAY/CONTROLLER
LOGGER-/BUS SYSTEMS
TRANSMITTER
TEMPERATURE PROBE
ALARM/PROTECTION, LEVEL

TYPE K - MEASURING PROBE (NICR-NI) WITH DIN-TYPE FLAT-PIN PLUG

-50°C
+250°C

GKF 250

Art. no. 600141
Cable lug probe
-50 ... +250 °C



For tightening with suitable screw (standard M4), 1 m Teflon cable, miniature flat plug

Response time T₉₀: approx. 10 s

-50°C
+500°C

GLS 500

Art. no. 602962
Soldering tip probe
-50 ... +500 °C (for short time)



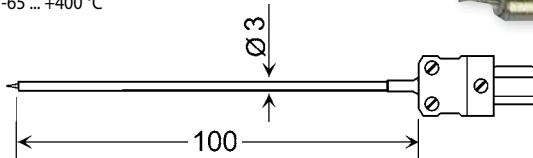
for direct connection to instrument
2 laser-fused spring-loaded spiral springs made of NiCr-Ni, ceramic tube approx. 6 mm in diameter, miniature flat plug

Response time T₉₀: approx. 2 s

-65°C
+400°C

GTO 130 OK

Art. no. 600134
Air-/Gas probe
-65 ... +400 °C



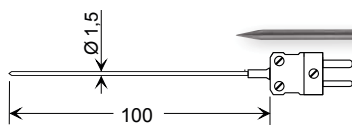
changeable probe without cable, limited suitable also for surfaces
NiCr-Ni-wire Ø 0.5 mm, welded and grinded flat, V4A-tube Ø 3 mm, DIN-type flat-pin plug, rigid connection

Response time T₉₀: approx. 2 s

-65°C
+400°C

GTE 130 OK

Art. no. 601483
Insertion probe
-65 ... +400 °C



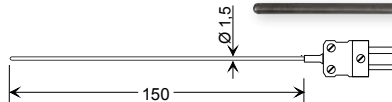
interchangeable probe without cable for soft media
Spring-loaded V4A tube with slim Ø 1.5 mm insertion tip, miniature flat plug with a rigid connection

Response time T₉₀: water 0.4 m/s < 1 s

-200°C
+1150°C

GTT-15-150

Art. no. 607552
Immersion probe
-200 ... +1150 °C



for air, gases, and liquids
Sheathed thermocouple with Inconel 600 jacket tube Ø 1.5 mm, bendable, miniature flat plug with a rigid connection

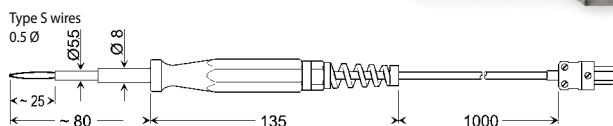
Response time T₉₀: water 0.4 m/s approx. 3 s

+50°C
+1550°C

GBF 1550

Art. no. 603037
Bunsen burner probe - type S
+50 ... +1550 °C

FOR HIGHEST TEMPERATURES



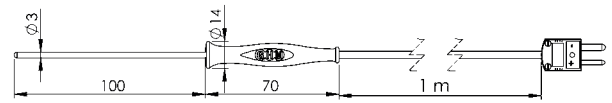
Probe tip may be directly exposed into the flame
V4A tube Ø 8 mm, with reduced Ø 5.5 mm ceramic tube, plastic handle, silicone cable, miniature flat plug

Response time T₉₀: approx. 2 s

-65°C
+550°C

GF 1TK-T3

Art. no. 609695
Ø 3 mm immersion sensor
-65 ... +550 °C, type K, class 1



Immersion probe Ø 3 mm made of V4A tube, black silicone handle -50 ... +250 °C, 1 m silicone cable -50 ... +200 °C, probe and silicone handle IP67, mini flat connection

Response time T₉₀: Water 0.4 m/s < 2 s, air 2 m/s approx. 40 s

Variants:

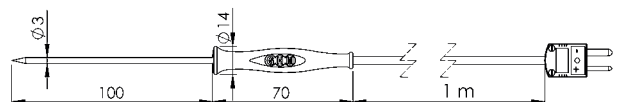
GF 1TK-T3-LE

Art. no. 609696
with loose ends

-65°C
+550°C

GF 1TK-E3

Art. no. 609697
Ø 3 mm insertion sensor
-65 ... +550 °C, type K, Class 1



Insertion probe Ø 3 mm made of V4A tube, black silicone handle -50 ... +250 °C, 1 m silicone cable -50 ... +200 °C, probe and silicone handle IP67, mini flat connection

Response time T₉₀: Water 0.4 m/s < 2 s, air 2 m/s approx. 40 s

Variants:

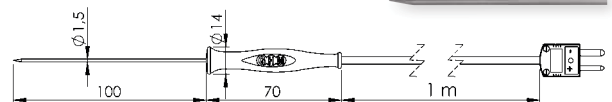
GF 1TK-E3-LE

Art. no. 609698
with loose ends

-65°C
+550°C

GF 1TK-E1.5

Art. no. 609699
Ø 1.5 mm extra-thin insertion sensor
-65 ... +550 °C, type K, Class 1



Insertion probe Ø 1.5 mm made of V4A tube, black silicone handle -50 ... +250 °C, 1 m silicone cable -50 ... +200 °C, probe and silicone handle IP67, mini flat connection

Response time T₉₀: water 0.4 m/s < 1 s, air 2 m/s approx. 15 s

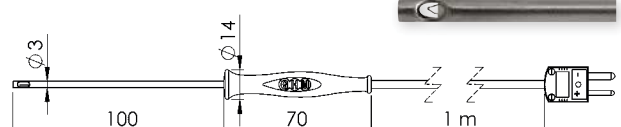
Variants:

GF 1TK-E1.5-LE

Art. no. 609700
with loose ends

GF 1TK-L3

Art. no. 611299
Ø 3 mm air sensor for clean media
-65 ... +400 °C, type K, Class 1



(use GF 1TK-T3 for contaminated media), perforated V4A tube Ø 3 mm, freely arranged measuring element, black silicone handle -50 ... +250 °C, 1 m silicone cable -50 ... +200 °C, mini flat connection

Response time T₉₀: air 2 m/s approx. 15 s

Variants:

GF 1TK-L3-LE

Art. no. 611300
with loose ends